

Groundwater Use in Kansas

Overview¹

Total

Groundwater (mgd — fresh, not saline)..... 3,200
Percentage of total freshwater* supply for state..... 80.0%

Public Supply

Groundwater (mgd) 160
Percentage of total groundwater..... 5.00%
Percentage of total public supply 40.9%

Individual Household

Groundwater (mgd) 14.9
Percentage of total groundwater..... 0.47%
Percentage of total individual household supply 100%

Irrigation

Groundwater (mgd) 2,880
Percentage of total groundwater..... 90.0%
Percentage of total irrigation..... 94.7%

Livestock/Aquaculture

Groundwater (mgd) 95.4
Percentage of total groundwater..... 2.98%
Percentage of total livestock/aquaculture..... 75.2%

Industrial, Self-Supplied

Groundwater (mgd) 33.5
Percentage of total groundwater..... 1.05%
Percentage of total industrial, self-supplied 83.1%

Mining

Groundwater (mgd) 9.34
Percentage of total groundwater..... 0.29%
Percentage of total mining..... 70.2%

Thermoelectric

Groundwater (mgd) 11.2
Percentage of total groundwater..... 0.35%
Percentage of total thermoelectric..... 2.97%

(mgd = million gallons per day)

*All totals and ratios are measures of freshwater only.

¹ US Geological Survey, November 2014 report on 2010 water use.

² Kansas Geological Survey Water Well Completion Records Database

³ US EPA Federal Safe Drinking Water Information System Data for 2014.

⁴ *Ibid.*

⁵ *Ibid.*

⁶ Census of Agriculture 2013 Farm and Ranch Irrigation Survey.

Groundwater's Role in Kansas's Economic Vitality

- Approximately 94,400 known residential wells statewide.²
- 517 community water systems use groundwater for 747,000 people³
- 39 non-community, non-transient water systems use groundwater for 20,600 people⁴
- 80 non-community, transient water systems use groundwater for 3,830 people⁵
- 23,100 irrigation wells used serving 4,750 farms and 2,810,000 acres⁶



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Kansas's Groundwater Industry Employment

Men and women working to provide and protect Kansas's groundwater resources for the benefit of people, business, and our environment.

Kansas's Contracting Employment

Drill and service water wells, install and service pumps, install and service point of use water treatment devices. This portion of the industry is characterized by small firms, many of which are multi-generation family-owned and operated.⁷

- 69 firms employ an estimated 616 people⁸
- Annual estimated sales of \$141 million

Kansas's Scientists and Engineers Employment

Geologists, hydrogeologists, engineers, geochemists, geophysicists, microbiologists, regulators.

Environmental Consulting⁹

NAICS 54162: Establishments primarily engaged in providing advice and assistance on environmental issues, such as the control of environmental contamination from pollutants, toxic substances, and hazardous materials.

- 189 firms employ an estimated 683 people
- Annual estimated sales of \$109 million

Remediation¹⁰

NAICS 56291: Establishments include those engaged in remediation and cleanup of contaminated buildings, mine sites, soil, or groundwater.

- 60 firms employ an estimated 449 people
- Annual estimated sales of \$69.8 million

Public Service and Universities, Colleges, and Research Centers

- Many more dedicated individuals



⁷ InfoUSA, SIC 1781, March 2015.

⁸ Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2015.

⁹ Barnes Reports: Environmental Consulting Services Industry (NAICS 54162); C. Barnes & Co., 2015.

¹⁰ Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2015.